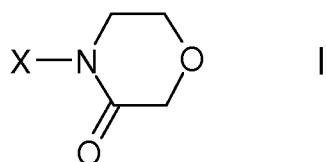


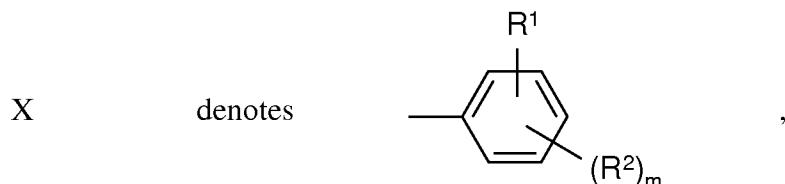
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A process Process for the preparation of a compound compounds of the formula I



in which



R¹ denotes NO₂, CN, COOR³, CON(R³)₂, COR³, SO₂R⁴, SO₂N(R³)₂, CF₃, F or Cl,

R² denotes H, Hal, A, OR³, N(R³)₂, NO₂, CN, COOR³, CON(R³)₂, NR³COA, NR³CON(R³)₂, NR³COOR³, NR³SO₂A, -[C(R⁵)₂]_n-Ar, -[C(R⁵)₂]_n-Het, -[C(R⁵)₂]_n-cycloalkyl, COR³, SO₂N(R³)₂ or SO₂R⁴,

R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

R⁴ denotes A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

R⁵ denotes H or A',

Ar denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂ or S(O)_nA,

Het denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN,

COOR^5 , $\text{CON}(\text{R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(\text{R}^5)_2$,

$\text{S(O)}_n\text{A}$ and/or carbonyl oxygen ($=\text{O}$),

A' denotes unbranched or branched alkyl having 1-6 C atoms,

A denotes unbranched, branched or cyclic ~~cycle~~ alkyl having 1-12 C atoms, in which one or two CH_2 groups may be replaced by O or S atoms and/or by $-\text{CH}=\text{CH}-$ groups and/or in addition 1-7 H atoms may be replaced by F,

Hal denotes F, Cl, Br or I,

n denotes 0, 1 or 2,

m denotes 0, 1, 2, 3 or 4,

and salts thereof, characterised in that

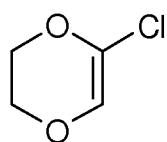
a) a compound of the formula II which has a pK_a value ≤ 3



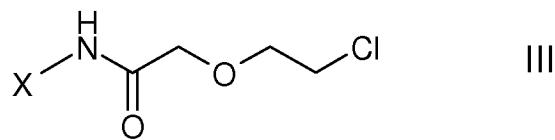
in which

X has the meaning indicated above,

is reacted with 5-chloro-2,3-dihydro-1,4-dioxin



to give a compound of the formula III



in which

X has the meaning indicated above,

b) then a compound of the formula III is cyclised to give a compound of the formula I,

and

c) the latter is optionally converted into its salt by converting a base or acid of the formula I into one of its salts.

2. (Currently Amended) A process according to Claim 1 for the preparation of a compound of the formula I
in which

R^1 denotes NO_2 , CN , $COOR^3$, COR^3 or Cl ,

R^2 denotes H , Hal or A ,

and salts thereof.

3. (Currently Amended) A process according to Claim 1 for the preparation of a compound of the formula I
in which

R^1 denotes NO_2 , CN , $COOR^3$, $CON(R^3)_2$, COR^3 , SO_2R^4 , $SO_2N(R^3)_2$,

CF_3 , F or Cl ,

R^2 denotes H , Hal or A ,

R^3 denotes H , A , $-[C(R^5)_2]_n-Ar$ or $-[C(R^5)_2]_n-Het$,

and salts thereof.

4. (Currently Amended) A process according to Claim 1 for the preparation of a compound of the formula I
in which

Ar denotes phenyl,
and salts thereof.

5. (Currently Amended) A process according to Claim 1 for the preparation of a compound of the formula I
in which

R⁴ denotes A,
and salts thereof.

6. (Currently Amended) A process according to Claim 1 for the preparation of a compound of the formula I

in which

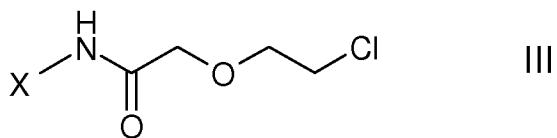
R¹ denotes NO₂, CN, COOR³, CON(R³)₂, COR³, CF₃, F or Cl,
R² denotes H, Hal or A',
R³ denotes H, A' or -[C(R⁵)₂]_n-Ar,
Ar denotes phenyl,
R⁵ denotes H or A',
A' denotes unbranched or branched alkyl having 1-6 C atoms,
Hal denotes F, Cl, Br or I,
n denotes 0, 1 or 2,
and salts thereof.

7. (Cancelled)

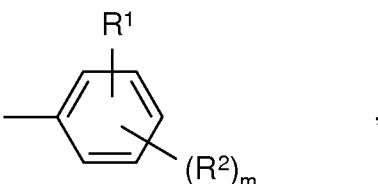
8. (Currently Amended) A process according to claim 1 in which process steps a) and b) are carried out as a one-pot reaction.

9. (Currently Amended) A process according to claim 1 in which process step a) is carried out at a temperature between 0 and 150°C.

10. (Currently Amended) A process ~~Process~~ according to Claim 9, in which process step a) is carried out at a temperature between 70 and 90°C.
11. (Currently Amended) A process ~~Process~~ according to claim 1 in which the cyclization ~~cyclisation~~ is carried out in an inert solvent or solvent mixture, in the presence of an alkali or alkaline earth metal hydroxide, carbonate or bicarbonate.
12. (Currently Amended) A process ~~Process~~ according to claim 1 in which the cyclization ~~cyclisation~~ is carried out in the presence of caesium carbonate or potassium carbonate.
13. (Currently Amended) A process ~~Process~~ according to claim 1 in which the process is carried out as a one-pot reaction in acetonitrile.
14. (Currently Amended) A process ~~Process~~ according to claim 1 for the preparation of ~~compounds selected from the group~~
4-(4-nitrophenyl)-3-oxomorpholine,
4-(3-nitrophenyl)-3-oxomorpholine,
4-(2-nitrophenyl)-3-oxomorpholine,
2-methyl-4-(4-nitrophenyl)-3-oxomorpholine,
4-(4-methoxycarbonylphenyl)-3-oxomorpholine,
4-(4-benzoylphenyl)-3-oxomorpholine,
~~and salts or a salt~~ thereof.
15. (Withdrawn-currently amended) An intermediate compound ~~Intermediate~~ ~~compounds~~ of the formula III



in which

X	denotes	
R^1	denotes NO_2 or CN ,	
R^2	denotes H, Hal, A, OR^3 , $\text{N}(\text{R}^3)_2$, NO_2 , CN, COOR^3 , $\text{CON}(\text{R}^3)_2$, NR^3COA , $\text{NR}^3\text{CON}(\text{R}^3)_2$, NR^3COOR^3 , $\text{NR}^3\text{SO}_2\text{A}$, $-[\text{C}(\text{R}^5)_2]_n\text{-Ar}$, $-[\text{C}(\text{R}^5)_2]_n\text{-Het}$, $-[\text{C}(\text{R}^5)_2]_n\text{-cycloalkyl}$, COR^3 , $\text{SO}_2\text{N}(\text{R}^3)_2$ or SO_2R^4 ,	
R^3	denotes H, A, $-[\text{C}(\text{R}^5)_2]_n\text{-Ar}$ or $-[\text{C}(\text{R}^5)_2]_n\text{-Het}$,	
R^4	denotes A, $-[\text{C}(\text{R}^5)_2]_n\text{-Ar}$ or $-[\text{C}(\text{R}^5)_2]_n\text{-Het}$,	
R^5	denotes H or A',	
Ar	denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR^5 , $\text{N}(\text{R}^5)_2$, NO_2 , CN, COOR^5 , $\text{CON}(\text{R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(\text{R}^5)_2$ or $\text{S}(\text{O})_n\text{A}$,	
Het	denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR^5 , $\text{N}(\text{R}^5)_2$, NO_2 , CN, COOR^5 , $\text{CON}(\text{R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(\text{R}^5)_2$, $\text{S}(\text{O})_n\text{A}$ and/or carbonyl oxygen (=O),	
A'	denotes unbranched or branched alkyl having 1-6 C atoms,	
A	denotes unbranched, branched or <u>cyclic</u> <u>ethylene</u> alkyl having 1-12 C atoms, in which one or two CH_2 groups may be replaced by O or S atoms and/or by $-\text{CH}=\text{CH}-$ groups and/or in addition 1-7 H atoms may be replaced by F,	
Hal	denotes F, Cl, Br or I,	

n denotes 0, 1 or 2,
m denotes 0, 1, 2, 3 or 4,
and salts thereof.

16. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to Claim 15 in which
R¹ denotes NO₂ or CN,
R² denotes H, Hal or A,
and salts thereof.

17. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to Claim 15, in which
R¹ denotes NO₂ or CN,
R² denotes H, Hal or A,
R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,
and salts thereof.

18. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to Claim 15 in which
Ar denotes phenyl,
and salts thereof.

19. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to claim 15 in which
R⁴ denotes A,
and salts thereof.

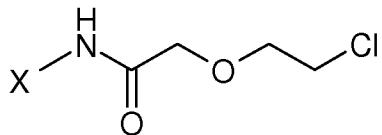
20. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to claim 15 in which

R^1 denotes NO_2 or CN ,
 R^2 denotes H, Hal or A' ,
 R^3 denotes H, A' or $-[\text{C}(R^5)_2]_n\text{-Ar}$,
Ar denotes phenyl,
 R^5 denotes H or A' ,
 A' denotes unbranched or branched alkyl having 1-6 C atoms,
Hal denotes F, Cl, Br or I,
n denotes 0, 1 or 2,
m denotes 0, 1 or 2,
and salts thereof.

21. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to Claim 20 in which

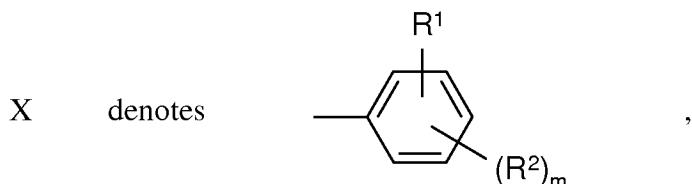
R^1 denotes NO_2 ,
 R^2 denotes H, Hal or A' ,
 R^3 denotes H, A' or $-[\text{C}(R^5)_2]_n\text{-Ar}$,
Ar denotes phenyl,
 R^5 denotes H or A' ,
 A' denotes unbranched or branched alkyl having 1-6 C atoms,
Hal denotes F, Cl, Br or I,
n denotes 0, 1 or 2,
m denotes 0, 1 or 2,
and salts thereof.

22. (Withdrawn-currently amended) A process ~~Process~~ for the preparation of an intermediate compound ~~intermediate compounds~~ of the formula III



III

in which



R^1	denotes NO_2 , CN , COOR^3 , $\text{CON}(R^3)_2$, COR^3 , SO_2R^4 , $\text{SO}_2\text{N}(R^3)_2$, CF_3 , F or Cl,
R^2	denotes H, Hal, A, OR^3 , $\text{N}(R^3)_2$, NO_2 , CN , COOR^3 , $\text{CON}(R^3)_2$, NR^3COA , $\text{NR}^3\text{CON}(R^3)_2$, NR^3COOR^3 , $\text{NR}^3\text{SO}_2\text{A}$, $-[\text{C}(R^5)_2]_n\text{-Ar}$, $-[\text{C}(R^5)_2]_n\text{-Het}$, $-[\text{C}(R^5)_2]_n\text{-cycloalkyl}$, COR^3 , $\text{SO}_2\text{N}(R^3)_2$ or SO_2R^4 ,
R^3	denotes H, A, $-[\text{C}(R^5)_2]_n\text{-Ar}$ or $-[\text{C}(R^5)_2]_n\text{-Het}$,
R^4	denotes A, $-[\text{C}(R^5)_2]_n\text{-Ar}$ or $-[\text{C}(R^5)_2]_n\text{-Het}$,
R^5	denotes H or A',
Ar	denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR^5 , $\text{N}(R^5)_2$, NO_2 , CN , COOR^5 , $\text{CON}(R^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(R^5)_2$ or $\text{S(O)}_n\text{A}$,
Het	denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR^5 , $\text{N}(R^5)_2$, NO_2 , CN , COOR^5 , $\text{CON}(R^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(R^5)_2$, $\text{S(O)}_n\text{A}$ and/or carbonyl oxygen (=O),
A'	denotes unbranched or branched alkyl having 1-6 C atoms,
A	denotes unbranched, branched or <u>cyclic</u> <u>ethylene</u> alkyl having 1-12 C atoms, in which one or two CH_2 groups may be replaced by O or S atoms and/or by $-\text{CH}=\text{CH}-$ groups and/or in addition 1-7 H atoms may be replaced by F,

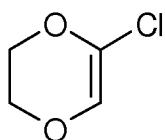
Hal denotes F, Cl, Br or I,
n denotes 0, 1 or 2,
m denotes 0, 1, 2, 3 or 4,
and salts thereof, characterised in that
a) a compound of the formula II



in which

X has the meaning indicated above,

is reacted with 5-chloro-2,3-dihydro-1,4-dioxin



and

the compound of the formula III is optionally converted into its salt.

23. (Withdrawn-currently amended) A process according to Claim 22 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which

R^1 denotes NO_2 or CN ,
 R^2 denotes H, Hal, A, OR^3 , $\text{N}(\text{R}^3)_2$, NO_2 , CN, COOR^3 , $\text{CON}(\text{R}^3)_2$, NR^3COA , $\text{NR}^3\text{CON}(\text{R}^3)_2$, NR^3COOR^3 , $\text{NR}^3\text{SO}_2\text{A}$, $-[\text{C}(\text{R}^5)_2]_n\text{-Ar}$, $-[\text{C}(\text{R}^5)_2]_n\text{-Het}$, $-[\text{C}(\text{R}^5)_2]_n\text{-cycloalkyl}$, COR^3 , $\text{SO}_2\text{N}(\text{R}^3)_2$ or SO_2R^4 ,
 R^3 denotes H, A, $-[\text{C}(\text{R}^5)_2]_n\text{-Ar}$ or $-[\text{C}(\text{R}^5)_2]_n\text{-Het}$,
 R^4 denotes A, $-[\text{C}(\text{R}^5)_2]_n\text{-Ar}$ or $-[\text{C}(\text{R}^5)_2]_n\text{-Het}$,
 R^5 denotes H or A',

Ar	denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR ⁵ , N(R ⁵) ₂ , NO ₂ , CN, COOR ⁵ , CON(R ⁵) ₂ , NR ⁵ COA, NR ⁵ SO ₂ A, COR ⁵ , SO ₂ N(R ⁵) ₂ or S(O) _n A,
Het	denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR ⁵ , N(R ⁵) ₂ , NO ₂ , CN, COOR ⁵ , CON(R ⁵) ₂ , NR ⁵ COA, NR ⁵ SO ₂ A, COR ⁵ , SO ₂ N(R ⁵) ₂ , S(O) _n A and/or carbonyl oxygen (=O),
A'	denotes unbranched or branched alkyl having 1-6 C atoms,
A	denotes unbranched, branched or <u>cyclic</u> cycle alkyl having 1-12 C atoms, in which one or two CH ₂ groups may be replaced by O or S atoms and/or by -CH=CH- groups and/or in addition 1-7 H atoms may be replaced by F,
Hal	denotes F, Cl, Br or I,
n	denotes 0, 1 or 2,
m	denotes 0, 1, 2, 3 or 4.

24. (Withdrawn-currently amended) A process according to Claim 23 for the preparation of an intermediate compound of the formula III in which

R¹ denotes NO₂ or CN,
R² denotes H, Hal or A.

25. (Withdrawn-currently amended) A process according to Claim 23 for the preparation of an intermediate compound of the formula III in which

R¹ denotes NO₂ or CN,
R² denotes H, Hal or A,
R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het.

26. (Withdrawn-currently amended) A process according to Claim 23 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which
Ar denotes phenyl.

27. (Withdrawn-currently amended) A process according to Claim 23 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which
 R^4 denotes A.

28. (Withdrawn-currently amended) A process according to Claim 23 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which

R^1 denotes NO_2 or CN ,
 R^2 denotes H, Hal or A' ,
 R^3 denotes H, A' or $-[\text{C}(R^5)_2]_n-\text{Ar}$,
Ar denotes phenyl,
 R^5 denotes H or A' ,
 A' denotes unbranched or branched alkyl having 1-6 C atoms,
Hal denotes F, Cl, Br or I,
n denotes 0, 1 or 2,
m denotes 0, 1 or 2.